

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number  
**WO 2005/087016 A1**

- (51) International Patent Classification<sup>7</sup>: **A23J 3/16**, (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (21) International Application Number: **PCT/NL2005/000192**
- (22) International Filing Date: 15 March 2005 (15.03.2005)
- (25) Filing Language: Dutch
- (26) Publication Language: English
- (30) Priority Data: 1025723 15 March 2004 (15.03.2004) NL
- (71) Applicant (for all designated States except US): **TECHNISCHE UNIVERSITEIT DELFT [NL/NL]**; Julianalaan 134, NL-2628 BL Delft (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GOLUBOVIC, Marijana [YU/NL]**; Maria Van Reigersberchstraat 107, NL-2611 GN Delft (NL). **OTTENS, Marcel [NL/NL]**; Bakhuis Roozenboomstraat 9, NL-2313 RC Leiden (NL). **WITKAMP, Geert, Jan [NL/NL]**; Planciusdreef 21, NL-2661 RJ Bergschenhoek (NL). **VAN DER WIELEN, Lucas, Antonius, Marla [NL/NL]**; Margrietlaan 4, NL-2665 AR Bleiswijk (NL).
- (74) Agent: **KUPECZ, Arpád**; Octrooibureau Los en Stijger B.V., Weteringschans 96, NL-1017 XS Amsterdam (NL).
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
- with international search report
  - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **METHOD OF PREPARING A PROTEIN AGGREGATE AND A PHARMACEUTICAL COMPOSITION**

(57) Abstract: The invention relates to a method of preparing a protein aggregate, wherein an aqueous protein solution is acidified with a pH that lies above the isoelectric point of the protein. In accordance with the invention, a first protein, which through acidification is able to form a protein aggregate, is acidified in the presence of a second protein in the aqueous solution in order to form a coaggregate comprising the first and second protein, wherein the second protein under identical temperature conditions and pH does not form a protein aggregate in the absence of the first protein. Acidification preferably occurs with the aid of CO<sub>2</sub>.

WO 2005/087016 A1